High Definition Digital Video Wall LED Monitor Operating Instructions

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Model No.: CVW-47SDI2

Operation Instructions

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully.
Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

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Safety Precautions

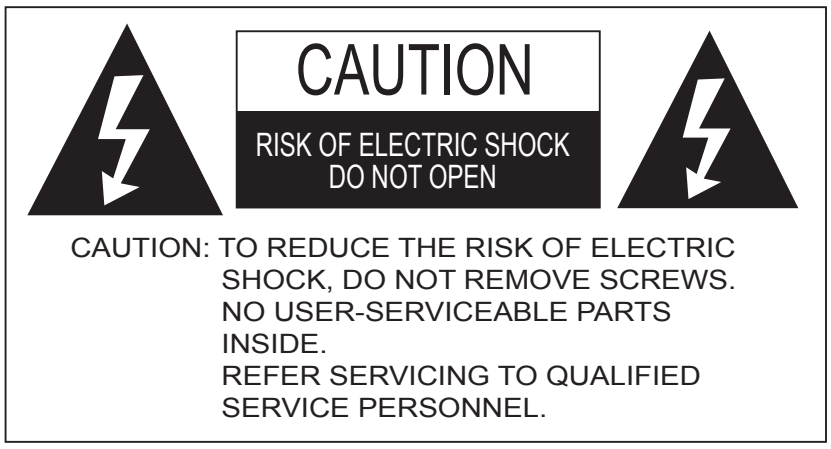
Please read all instructions before attempting to unpack or install or operate this equipment, and before connecting the power supply.
Please keep the following in mind as you unpack and install this equipment:

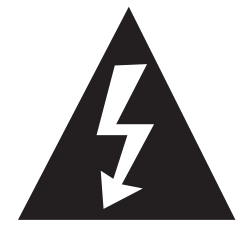
- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through module openings or empty slots, as you may damage parts.
- Do not attach the power supply cabling to building surfaces.
- Do not allow anything to rest on the power cabling or allow it to be abused by persons walking on it.
- To protect the equipment from overheating, do not block the slots and openings in the module housing that provide ventilation.

Revision History

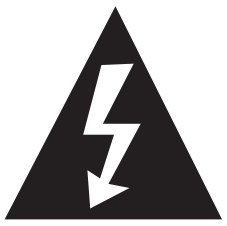
Version No	Date	Summary of Change
VR0	20121114	Preliminary Release

Important Information Warning


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrow-head within a triangle is intended to tell the use that parts inside the product are a risk of electric shock to persons.



The lightning flash with arrow-head within a triangle is intended to tell the use that parts inside the product are a risk of electric shock to persons.

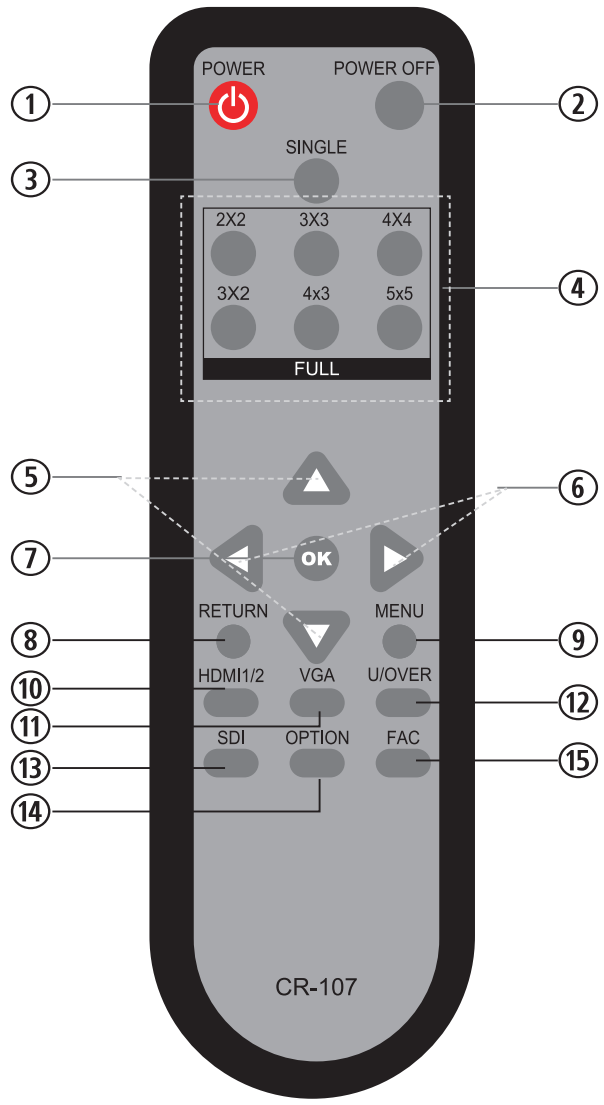
Warning: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not place liquid containers (flower vase, cups, cosmetics, etc.) above the set (including on shelves above, etc.).

1. Mains Supply
   Operate this product only from the type of power supply from the package. If you are not sure of the type of power supplied to your home, consult your local power company. Disconnect the product from the mains before your start any maintenance or installation procedures.
2. Overloading
   Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.
3. Liquids
   The product should not be exposed to any liquids such as dripping or splashing. In addition, no objects filled with liquids, such as vases, should be placed on the apparatus.
4. Cleaning
   Disconnect the product from the wall outlet before cleaning. Please wipe the screen gently with soft cloth. Do not using chemical solvents to cleaning the product, e.g. methylbenzene, resin or alcohol, will damage the exterior case, tinted glass and the remote controller. Do not apply them to clean this machine.
5. Place
   Do not place the product on an unstable, fluctuating or tilt table stand. The dropped display may endanger the personnel safety or product functions.
6. Cable
   Do not intertwine, pull or compress the power cable when placing the product, otherwise the power cable or plug may be worn out and damaged. And do not presses the power cable beneath the product, otherwise electric shocks, short circuits or flash over may occur.

1. Specifications

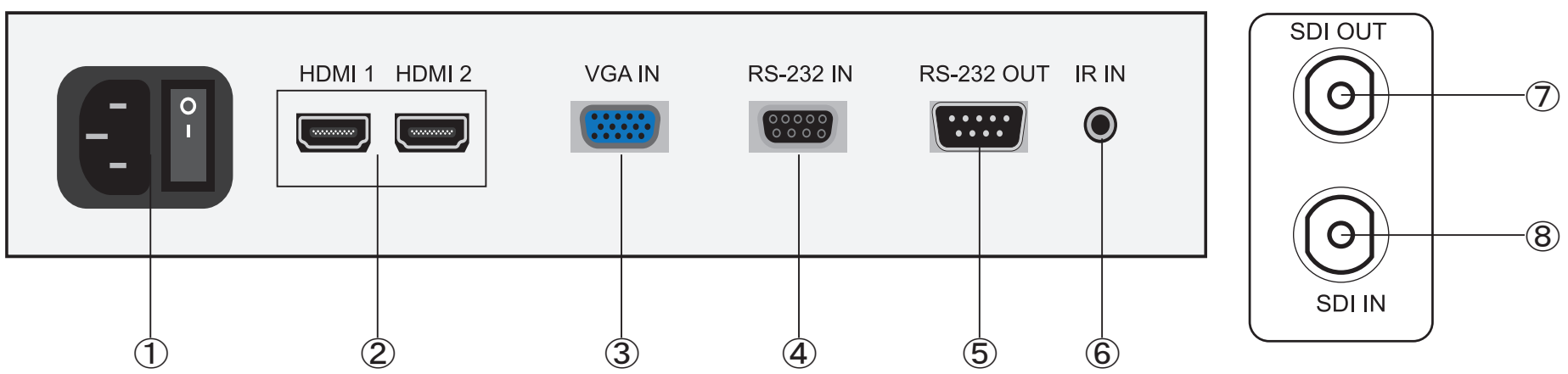
Model. No	CVW-47SDI2
SPECIFICATION	
Screen Size (inches)	47
Aspect Ratio	16:9
Contrast Ratio	1400:1
Viewing angle range	178°
Panel Resolution	1366*768
Response Time (ms)	12
Brightness	700cd/M^2
VIDEO	
HDMI Compatibility	480p/576p/720p/1080i/1080p
HDTV Compatibility	Up to 1080P
PC Resolution	640x480@60,72,75 800x600@56,60,72,75 1024x768@60,70,75 1280x1024@60,75 1360x768@60 1920x1080@60
SDI Timing & Distance	SD-SDI: SMPTE 259M-C, 270 Mbit/s up to 300m HD-SDI: SMPTE292M, 1.485 &1.485/1.001 Gbit/s up to 200m 3G-SDI: SMPTE 424M/425M-AB, 2.970 & 2.970/1.001 Gbit/s up to 300m
Progressive Scan	Yes
Video Noise Reduction	Yes
3D-Y/C Digital Comb Filter	Yes
Color Purity Optimizer (3D Color Management)	Yes
Motion Pattern Noise Reduction	Yes
INPUT/OUTPUT	
HDMI Interface	2 rear
PC Input (for PC)	1 rear
SDI	2 rear (1 in, 1 out)
GENERAL	
Power Supply	100V~240V
Power Consumption (W)	180
On Screen Display Languages	English
Dimension (H x V x D) mm	1046 x 591 x 115
Package Dimension (H x V x D)mm	1185 x 745 x 215
Net Weight (KG)	20.4
Gross Weight (KG)	21
Accessory	
Power Cord	1
Remote Control with Batteries	Yes
User Manual	Yes
Warranty Card	Yes

2. Remote Control



① POWER: Turn on the power of the monitor.
② POWER OFF: Turn off the power of the monitor.
③ SINGLE: Press this button to switch the output image to single display per monitor.
④ 2x2/3x3/4x4/5x5:Press thess buttons to switch the output image to 2x2/3x3/4x/3x2/4x3 or 5x5 displays per image.
⑤ ▲/▼: Adjust or select OSD menu up and down.
⑥ ◄/►: Adjust or select OSD menu left and right.
⑦ OK: Press this button to confirm the selection.
⑧ RETURN: Exit the OSD menu or the selection.
⑨ MENU: Display the OSD (On Screen Display) menu.
⑩ HDMI1/2: Press this hot key to switch the input to HDMI I/2.
⑪ VGA: Press this hot key to switch the input to VGA.
⑫ U/OVER: Press this key to adjust the screen when the image is underscan or overscan.
⑬ SDI: Press this hot key to switch the input to SDI.
⑭ OPTION: Press this key to switch to the special setting of the display image set by the factory design.
⑮ FAC:Press this key to enter into the factory mode. This is not a normal entry therefore, do not press this key unless it is adviced and guide by the special technician.

3. Signal Input/Output Terminals

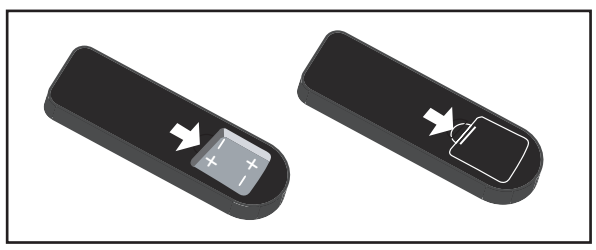


① AC IN: Connect the power cord with the power adaptor included in the package and plug it into the wall outlet for the power supply.
② HDMI IN 1/2: Connect the HDMI cable from DVD/Blu-ray player for signal input.
③ VGA IN: Connect the D-Sub 15pin cable from the PC/NB device or with RGB to D-Sub adaptor from the AV device for video signal input.
④ RS-232 IN: Connect the D-Sub 9pin cable from PC/NB device for RS-232 control.
⑤ RS-232 OUT: Connect the D-Sub 9pin cable to the next video/TV wall panel's(suggest using the same family type) RS-232 IN for unit signal distribution and displaying.
⑥ IR in: Connect the IR extender included in the package for receiving remote control's signal of the device.
⑦ SDI OUT: Connect the SDI cable to the next video/TV wall panel's(suggest using the same family type) SDI IN for unit signal distribution and displaying.
⑧ SDI IN: Connect the SDI cable from the SDI source equipment for signal input.

4. Using Your LED Display

Refer to the owner's manual of any external equipment to be connected. When connecting any external equipment, do not connect any AC power cord to wall outlets until all other connections are completed.

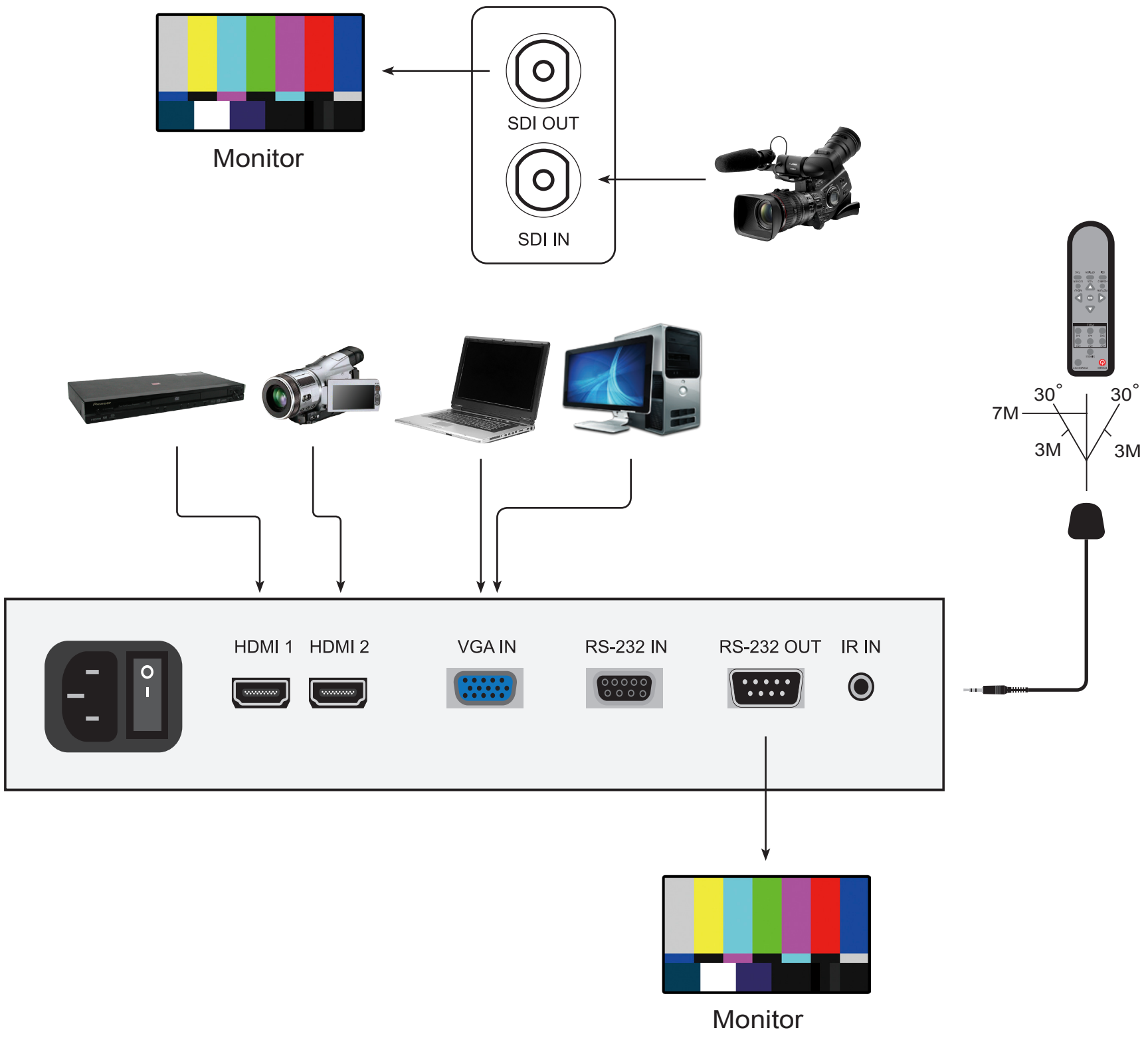
1. Connect all AC power sources.



2. Installing the AAA size batteries in your remote control.
   Step 1. Slide the back cover up to open the battery compartment of the remote control.
   Step 2. Insert two AAA size batteries. Make sure to match the (+) and (-) ends of the batteries with the (+) and (-) ends indicated in the battery compartment.
   Step 3. Slide the cover back into place.

   Do not use caustic cleaners (Porcelain, stainless steel, toilet, or oven cleaner etc.) on the remote, as it may suffer damage.

3. Press the [POWER] button on the remote to turn on the LED Display.

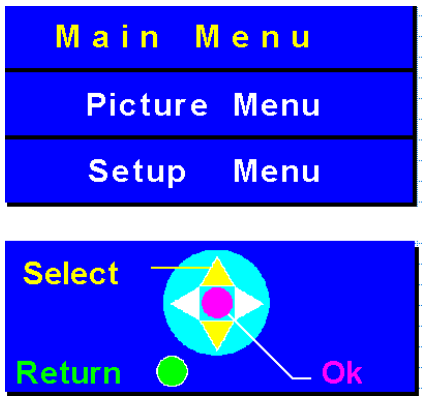


5. Using the OSD menu

Press [MENU].

Press [▲ / ▼] to highlight an option.

Press [OK] to confirm the selection.



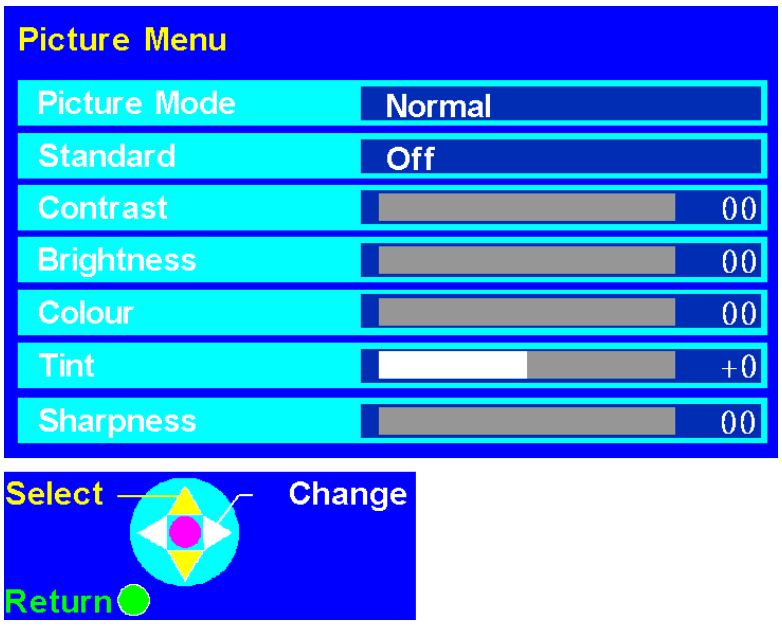
5.1 Picture Menu

Press [▲ / ▼] to highlight an option.

Press [◄ / ►] to adjust.

Press [OK] to confirm the selection.

Press [RETURN] to exit menu.



Option	Description
Picture Mode	To adjust picture mode to: Vivid / Normal / Cinema / User
Standard	ON/OFF, when slelct to ON the system will go back to initial setup
Colour	To adjust the color saturation.
Tint	To adjust picture hue (NTSC only).
Sharpness	Sharpen of soften the picture.
Contrast	To increase or decrease picture contrast.
Brightness	To adjust for brighten or darken the picture.

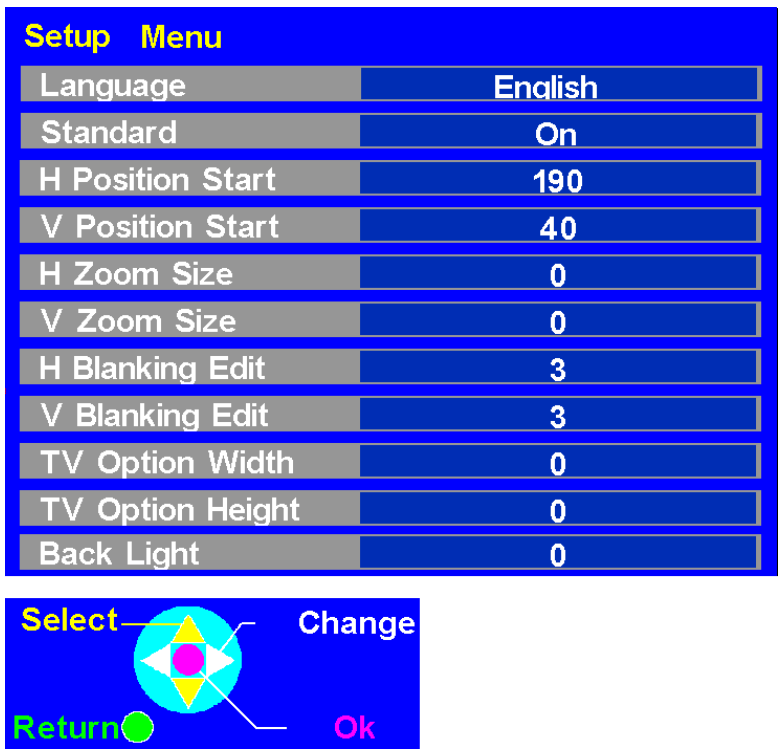
5.2 Setup Menu

Press [▲ / ▼] to highlight an option.

Press [◄ / ►] to adjust.

Press [OK] to confirm the selection.

Press [RETURN] to exit menu.



Option	Description
Language	Select the OSD display language (English, Traditional Chinese and Simplify Chinese).
Standard	Set it to ON will allow system to set the setup menu into the default value as indicated in the in the above diagram.
H Position Start	To set the total value of the horizontal value of the video/TV wall. This function is made to adjust for the standard monitor screen.
V Position Start	To set the total value of the vertical value of the video/TV wall. This function is made to adjust for the wide monitor screen.
H Zoom Size	To set the total value of the horizontal zoom in and zoo out size of the video/TV wall. This function is made to enlarge the image or to shrink the image.
V Zoom Size	To set the total value of the vertical zoom in and zoo out size of the video/TV wall. This function is made to enlarge the image or to shrink the image.
H Blanking Edit	This function is to set the total value of the horizontal value of the banking area of the video/TV wall. This function is made to adjust the image according to display's frame.
V Blanking Edit	This function is to set the total value of the vertical value of the banking area of the video/TV wall. This function is made to adjust the image according to display's frame.
TV Position Width	This function is to set the numbers of the TV/display that is to be on a horizontal line of the TV wall.
TV Position Height	This function is to set the numbers of the TV/display that is to be on a vertical line of the TV wall.
Back Light	This function is to set the back light of the TV panel from the highest figure of 0 with the brightest light to the lowest figure of 230 with darkest light.

6. RS-232 Protocol

6.1 Pin Definition

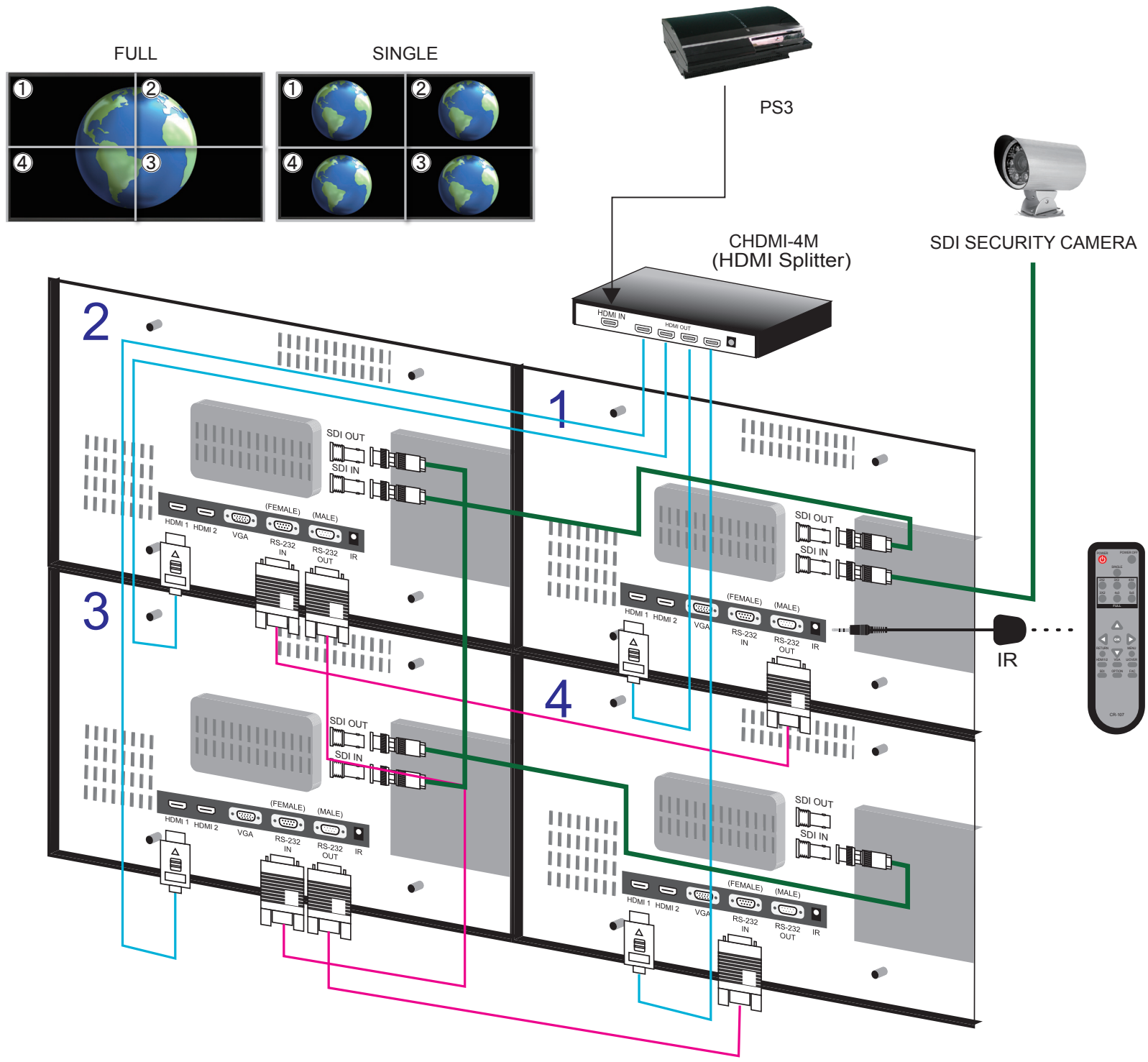
RS-232 IN			RS-232 OUT	
Pin 1	NC		Pin 1	NC
Pin 2	TxD		Pin 2	RxD
Pin 3	RxD		Pin 3	TxD
Pin 4	NC		Pin 4	NC
Pin 5	GND	→	Pin 5	GND
Pin 6	NC		Pin 6	NC
Pin 7	Connect to Pin 8	←	Pin 7	Connect to Pin 8
Pin 8	Connect to Pin 7		Pin 8	Connect to Pin 7
Pin 9	NC		Pin 9	NC

Baud Rate: 19200bps
Data bit: 8 bits
Parity: None
Stop Bit: 1 bit
Flow Control: None

6.2 Command

COMMAND	ACTION
0x23 0x53 0x30 0x30 0x31 0x23	POWER ON
0x23 0x53 0x30 0x30 0x30 0x23	POWER OFF
0x23 0x43 0x30 0x30 0x01 0x23	UNDER SCAN
0x23 0x43 0x30 0x30 0x00 0x23	OVER SCAN
0x23 0x43 0x52 0x11 0x00 0x23	SINGLE
0x23 0x43 0x52 0x22 0x00 0x23	2x2
0x23 0x43 0x52 0x33 0x00 0x23	3x3
0x23 0x43 0x52 0x44 0x00 0x23	4x4
0x23 0x43 0x52 0x55 0x00 0x23	5x5
0x23 0x43 0x52 0x32 0x00 0x23	3x2
0x23 0x43 0x52 0x43 0x00 0x23	4x3
0xEF 0x05 0x00 0xC0 0x22 0xEE	Change to HDMI 1
0xEF 0x05 0x01 0xC0 0x22 0xEE	Change to HDMI 2
0xEF 0x05 0x03 0xC0 0x22 0xEE	Change to PC
0xEF 0x05 0x02 0xC0 0x22 0xEE	Change to SDI

7. Connection and Installation



A. Prepare the TV / Panel

Keep all the parts properly for future installation purpose.

1.Separate the fixed rack from both side

* To avoid scratch or demage of the panel, it is suggested to place the panel on a flat table that is covered with soft cotton pad.
* As show in the diagram 1, remove the screws (x4) from the fixed rack (x2) of both side.

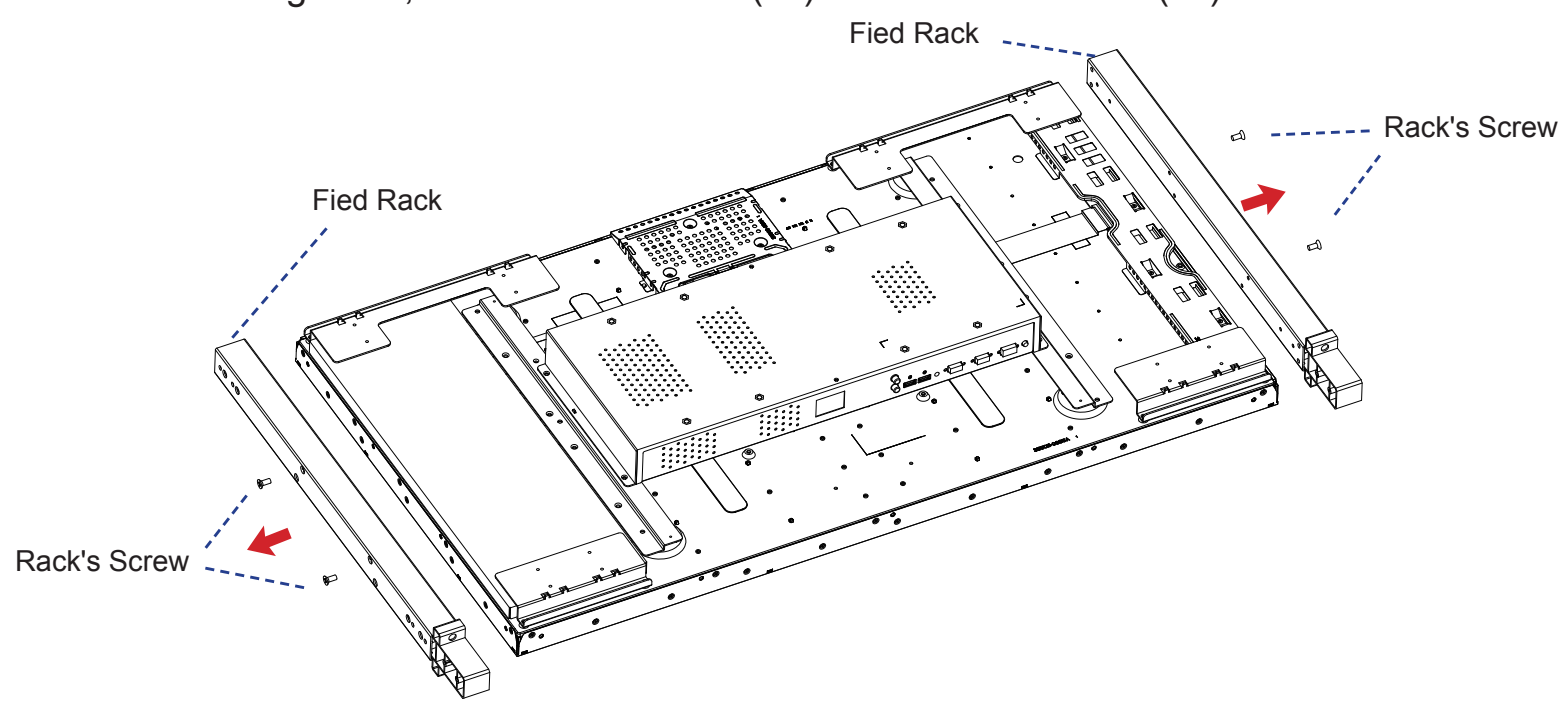


Diagram 1

As show in the picture is for reference only, please see the actual goods for standard.

2. Separate the support rack from the fixed rack

* As show in the diagram 2, remove the support rack's screw (x4) from the fixed rack (x2) of both side.

3. Fix the fixed rack on

* Keep the support rack and all the removed screws properly for future installation purpose and fix the fixed rack on the back of the panel as to diagram 3 show with the screws included in the panel's parts package.

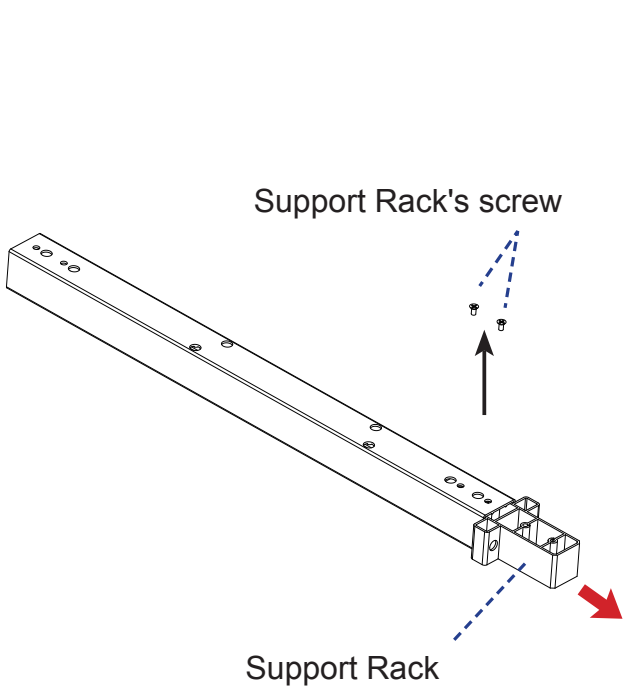


Diagram 2

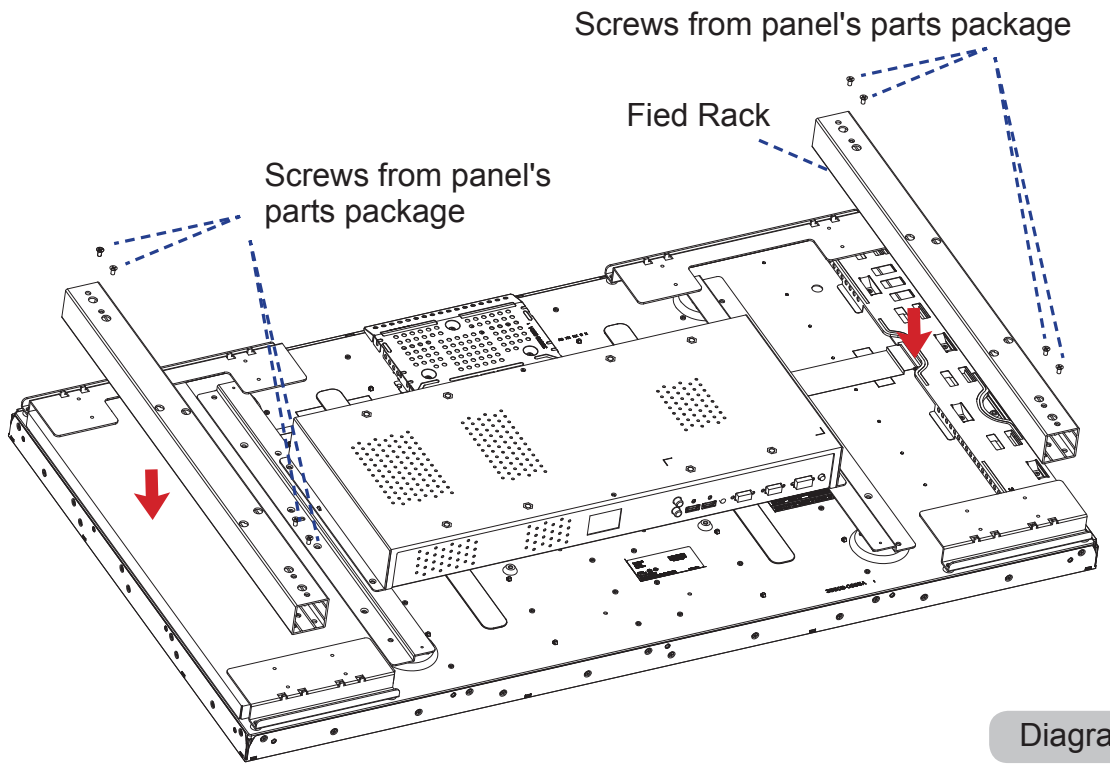


Diagram 3